

WHAT IS CLAIMED IS:

1. A composition of biochemical substances comprising ascorbic acid, niacin, lysine, and proline, wherein the composition is in therapeutically effective amounts to lower plasma concentration of a lipoprotein in a mammal.
2. The composition of biochemical substances according to claim 1, wherein the ascorbic acid is selected from the group consisting of ascorbic acid and a pharmaceutically acceptable salt thereof.
3. The composition of biochemical substances according to claim 1, wherein the niacin is selected from the group of nicotinic acid, niacin amide and a pharmaceutically acceptable salt thereof.
4. The composition of biochemical substances according to claim 1, wherein the lysine is selected from the group consisting of lysine, lysine hydrochloride, and a pharmaceutically acceptable salt thereof.
5. The composition of biochemical substances according to claim 1, wherein the proline is selected from the group consisting of proline, proline hydrochloride and a pharmaceutically acceptable salt thereof.
6. The composition of biochemical substances according to claim 1, wherein the lipoprotein is selected from the group consisting of total cholesterol, LDL-cholesterol, triglycerides, low density lipoprotein and homocysteine.
7. The composition of biochemical substances according to claim 1, wherein the lipoprotein is Lp(a).
8. The composition of biochemical substances according to claim 1, wherein the mammal is a human.

- 5 9. The composition of biochemical substances comprising ascorbic acid, ascorbyl palmitate, beta-, gamma-, delta-tocopherol-mix, beta-carotene, biotin, calcium ascorbate, calcium glycinate, carotenoid mix, cholecalciferol, chromium glycinate, citrus bioflavonoids, coenzyme Q10, copper glycinate, cyanocobalamin, d-alpha-tocopherol, d-calcium pantothenate, dicalcium phosphate, folic acid, inositol, L-arginine, L-carnitine, L-cysteine, L-lysine, L-proline, L-selenomethionine, magnesium ascorbate, magnesium glycinate, manganese chelate, molybdenum glycinate, niacin, niacinamide, potassium chelate, pycnogenol, pyridoxine, riboflavin, thiamine, and zinc glycinate, wherein the composition is in therapeutically effective amounts to lower plasma concentration of a lipoprotein in a mammal.
- 10 10. The composition of biochemical substances according to claim 9, wherein the lipoprotein is selected from the group consisting of total cholesterol, LDL-cholesterol, triglycerides, low density lipoprotein and homocysteine.
- 15 11. The composition of biochemical substances according to claim 9, wherein the lipoprotein is Lp(a).
- 20 12. The composition of biochemical substances according to claim 9, wherein the mammal is a human.
- 25 13. The composition of biochemical substances as in any one of claims 1-12, wherein the composition is provided to a human in form of tablets, pills, injections, infusions, inhalations, suppositories or other pharmaceutically acceptable means of delivery.
- 30 14. A method of lowering plasma concentration of a lipoprotein in a mammal, comprising administering to the mammal a composition of biochemical substances comprising ascorbic acid, niacin, lysine, and proline, wherein the composition is in therapeutically effective amounts to lower the plasma concentration of the lipoprotein in a mammal.

15. The method according to claim 14, wherein the lipoprotein is selected from the group consisting of total cholesterol, LDL-cholesterol, triglycerides, low density lipoprotein and homocysteine.

5 16. The method according to claim 14, wherein the lipoprotein is Lp(a).

17. The method according to claim 14, wherein the mammal is a human.

10 18. The method according to any one of claims 15-17, wherein the plasma concentration of the lipoprotein is lowered by at least 4%.

19. The method according to any of claims 15-17, wherein the plasma concentration of the lipoprotein is lowered by at least 8%.

15 20. The method according to any of claims 15-17, wherein the plasma concentration of the lipoprotein is lowered by at least 12%.

20 21. A method of lowering plasma concentration of a lipoprotein in a mammal, comprising administering to the mammal a composition of biochemical substances comprising ascorbic acid, ascorbyl palmitate, beta-, gamma-, delta-tocopherol-mix, beta-carotene, biotin, calcium ascorbate, calcium glycinate, caroteinoid mix, cholecalciferol, chromium glycinate, citrus bioflavonoids, coenzyme Q10, copper glycinate, cyanocobalamin, d-alpha-tocopherol, d-calcium pantothenate, dicalcium phosphate, folic acid, inositol, L-arginine, L-carnitine, L-cysteine, L-lysine, L-proline, L-selenomethionine, magnesium ascorbate, magnesium glycinate, manganese chelate, molybdenum glycinate, niacin, niacinamide, potassium chelate, pycnogenol, pyridoxine, riboflavin, thiamine, and zinc glycinate, wherein the
25 composition is in therapeutically effective amounts to lower the plasma concentration of the lipoprotein in a mammal.

22. The method according to claim 21, wherein the lipoprotein is selected from the group consisting of total cholesterol, LDL-cholesterol, triglycerides, low density lipoprotein and homocysteine.
- 5 23. The method according to claim 21, wherein the lipoprotein is Lp(a).
24. The method according to claim 21, wherein the mammal is a human.
- 10 25. The method according to any of claims 22-24, wherein the plasma concentration of the lipoprotein is lowered by at least 4%.
26. The method according to any one of claims 22-24, wherein the plasma concentration of the lipoprotein is lowered by at least 8%.
- 15 27. The method according to any one of claims 22-24, wherein the plasma concentration of the lipoprotein is lowered by at least 12%.